| ••• | <br><b>-</b> | laims |  |
|-----|--------------|-------|--|
|     |              |       |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/087,055              | CHOO, KIAM                              |
| Examiner                | Art Unit                                |
| Hai V. Nguyen           | 2142                                    |

| Rejected    | ·<br>- | (Through numeral)<br>Cancelled |
|-------------|--------|--------------------------------|
| <br>Allowed | +      | Restricted                     |

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| _ | Interference |

| A | Appeal   |
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| Cla      | aim  | L                                     |  |          | _[   | Date   |  |          |  |  |    |
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| Final    | Original   | 12/6/06                               |  |          |  |  |  |          |  |  |    |
|          | 1  | 1                                     |  | -        | _  |  |  | _        |  |  | ١  |
|          | 1<br>2<br>3<br>4<br>5<br>6<br>7                    | 1                                     |  |          | $\overline{}$                                    |  |  |          |  |  | ı  |
|          | 3  | -                                     |  |          |  |  |  |          |  |  |    |
|          | 4  | -                                     |  |          |  |  |  |          |  |  | ı  |
|          | 5  | 1                                     |  |          |  |  |  |          |  |  | ı  |
|          | 6  | -                                     |  |          |  |  |  |          |  |  | ı  |
|          | 7  | 7<br>7<br>7                           |  |          |  |  |  |          |  |  |    |
|          | 8<br>9<br>10                                       | 1                                     |  |          |  |  |  |          |  |  | ľ  |
|          | 9  | 1                                     |  |          |  |  |  |          |  |  | ŀ. |
|          | 10   | 1                                     |  |          |  |  |  |          |  |  | ı  |
|          | 11   | -                                     |  |          |  |  |  |          | L  |  | ľ  |
|          | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19 | 7<br>7<br>7                           | _  |          | L  | <u> </u>   |  |          | L  |  |    |
|          | 13   | 1                                     | <u> </u>   | L        |  | <u> </u>   | L_   |          |  |  | ľ  |
|          | 14   | <u> </u>                              |  |          |  |  |  |          |  |  | ŀ  |
|          | 15   | -<br>-<br>-<br>-<br>1                 |  | L        | <u> </u>   |  | Ш  |          | L.   | L.   | 1. |
|          | 16   | 1                                     |  |          |  |  | L.   |          | _  |  | ١. |
|          | 17   | <u>  -</u>                            | ļ  |          | <u> </u>   |  |  |          | L_   |  | l  |
|          | 18   | -                                     | <u> </u>   |          | L  | _  | L  |          | <u> </u>   |  | Į, |
|          | 19   | ÷                                     | Ŀ  |          |  | _  |  |          | <u> </u>   |  |    |
|          | 20   | 1                                     | <u> </u>   |          |  | _  | _  |          | <u> </u>   | L.   | ļ  |
|          | 21   |                                       | _  |          |  | <u> </u>   |  | _        | <u> </u>   | _  | l  |
|          | 22<br>23   | <u> </u>                              | <u> </u>   |          | <u> </u>   | <u> </u>   |  |          | <u> </u>   | L  | l  |
|          | 23   | -<br>-                                | <u> </u>   |          | <u> </u>   | <u> </u>   | ╙  | <u> </u> | <u> </u>   | $oxed{oxed}$                                     | ŀ  |
|          | 24<br>25   |                                       | _  |          | _  | _  | _  |          | _  | _  | ŀ  |
|          | 25   | Ŀ                                     |  |          | ļ  |  |  |          | _  |  | l  |
|          | 26   | Ξ                                     | _  |          | _  | <u> </u>   | L  | _        | <u> </u>   | -  | l  |
|          | 27<br>28   | -<br>7<br>7<br>7                      | <u> </u>   | -        | ├-   | ļ  | <u> </u>   |          | $\vdash$   |  | l  |
|          | 29   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |  | <u> </u> |  | _  |  |          |  |  | 1  |
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|          | 30<br>31   | N<br>J                                | -  | ┝        | -  |  | <del> </del>                                     | <u> </u> | _  | -  |    |
|          | 32   | -/                                    | -  |          | -  |  | ┝  | ├        | _  | <u> </u>   | 1  |
| ├──      | 32   | 1                                     |  | ├        | ├  | <del> </del>                                     | ┝  | <u> </u> | H  | ┝  | ł  |
| <b></b>  | 33<br>34   | 7                                     |  | ┝        | ⊢  | ┝  | ⊢  | ├        | ┝  | ┝  | l  |
|          | 35   |                                       | $\vdash$   | $\vdash$ | ├  | ├  | -  | ├─       |  |  | ł  |
| -        | 36   | -                                     | <del> </del>                                     | ⊢        | $\vdash$   | ⊢  | $\vdash$   | ⊢        | ⊢  | ⊢  | 1  |
|          | 37   | 1                                     | ⊢  | ┢        | ┢  | ┢  | ┢  | $\vdash$ | -  | ⊢  | ľ  |
| <u> </u> | 38   | <u>`</u>                              | $\vdash$   | -        | ⊢  | ├─   | ┝  | ┝        | -  | ├  | ł  |
|          | 39   | -                                     | $\vdash$   | -        | -  | -  | _  | $\vdash$ | ╁  | $\vdash$   | ł  |
|          | 40   | V                                     | ,  | -        | -  | ┢  | $\vdash$   | Н        | $\vdash$   |  | l  |
|          | 41   | <u> </u>                              | $\vdash$   | _        | <del>                                     </del> | $\vdash$   |  | $\vdash$ | -  | <del>                                     </del> | l  |
| <u> </u> | 42   | -                                     | T  | $\vdash$ | $\vdash$   | 一  | _  | ┢        | <del>                                     </del> | $\vdash$   | 1  |
|          | 43   | ١.                                    | <del>                                     </del> | _        | <del>                                     </del> |  | -  | Т        |  | Т  | 1  |
|          | 44   | 1                                     | Т  | Г        | Т  | <u> </u>   | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$   | 1  |
|          | 45   | 广                                     | <del>                                     </del> | $\vdash$ | $\vdash$   | H  |  |          |  | ┢  | 1  |
|          | 46   | $\vdash$                              | Т  | Т        | Ι.   | <del>                                     </del> |  |          |  | $\vdash$   | 1  |
|          | 47   |                                       |  | T-       | $I^-$  | T  |  |          | T  | $\vdash$   | ĺ  |
|          | 48   | П                                     | T  |          | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | $\vdash$ | Т  | Г  | ١  |
|          | 49   |                                       |  |          | $\vdash$   | Ι_   | Г  | Г        | Г  |  | 1  |
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| Γ       | Claim         |                            |          | Date   |  |              |              |            |              |              |               |  |  |
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| Г       |               |                            |          |  |  |              |              |            |              |              |               |  |  |
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|         | Final         | Original                   |          |  | l  |              |              |            |              |              |               |  |  |
| 1       |               | 0                          |          |  |  |              |              |            |              |              |               |  |  |
| r       |               | 51                         |          |  | Т  |              |              |            | _            |              | $\overline{}$ |  |  |
| ۲       |               | 52                         |          |  | _  |              | -            |            |              |              |               |  |  |
| F       |               | 53                         |          |  | ┪  |              |              | _          |              |              |               |  |  |
| F       |               | 54                         | _        |  | $\vdash$   | _            |              | -          | _            |              |               |  |  |
| r       |               | 55                         |          | $\vdash$   |  |              |              |            |              |              |               |  |  |
| ┢       |               | 56                         |          |  |  |              |              |            |              |              |               |  |  |
| ۲       |               | 57                         |          | -  | ┢  |              |              |            |              | _            |               |  |  |
| r       |               | 58                         |          |  | ┢  |              | -            |            |              |              |               |  |  |
| ┢       |               | 58<br>59                   | _        | $\vdash$   | $\vdash$   | _            | _            | _          |              |              |               |  |  |
| ┢       |               | 60                         | _        | <del>                                     </del> | $\vdash$   | -            |              | _          |              |              |               |  |  |
| -       |               | 61                         |          | _  | $\vdash$   | Н            |              |            |              |              |               |  |  |
|         | $\overline{}$ | 62                         | $\vdash$ | _  | <del>                                     </del> | $\vdash$     | ┢            | $\vdash$   | $\vdash$     |              |               |  |  |
| H       |               | 62<br>63                   | -        | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$     |            |              |              | _             |  |  |
| ╁       | $\dashv$      | 64                         |          | $\vdash$   | $\vdash$   | _            | $\vdash$     |            |              |              |               |  |  |
| :-      | -             | 64<br>65                   |          | -  | -  | $\vdash$     | -            |            |              |              |               |  |  |
| ·  -    |               | 66                         |          |  | ┝  |              |              |            |              |              |               |  |  |
|         |               | 67                         |          | -  | ┢  | -            | $\vdash$     |            |              |              |               |  |  |
| 1       |               | 68                         |          | ┢╌   |  |              |              |            |              |              |               |  |  |
| i       | -             | 60                         | _        | ⊢  | $\vdash$   | ⊢            | $\vdash$     |            | _            |              | $\vdash$      |  |  |
| 1       |               | 69<br>70                   |          | ⊢  |  |              |              |            | _            |              |               |  |  |
| $\perp$ |               | 71                         |          | -  | $\vdash$   | -            | H            |            | _            | $\vdash$     | $\vdash$      |  |  |
| H       |               | 72                         |          | ┢  | -  | -            | -            | _          | -            |              |               |  |  |
| ·  -    | -             | 72                         |          | H  | ⊢  |              | ┝            | Н          |              |              | $\vdash$      |  |  |
| · F     |               | 72<br>73<br>74<br>75<br>76 | _        | ├  | ⊢  | ⊢            | ⊢            | H          | _            |              |               |  |  |
| ┝       |               | 75                         | -        | -  |  | -            | <del> </del> | H          | -            | -            |               |  |  |
| -       |               | 76                         |          | ┝  | -  | -            | ├            |            | -            | -            |               |  |  |
| ╌       |               | 77                         | <u> </u> |  | -  | <del> </del> |              | <u> </u>   | <u> </u>     |              |               |  |  |
| 1       |               | 77<br>78                   | _        | ⊢  | ⊢  | ⊢            | ⊢            | ⊢          | ⊢            | ⊢            | _             |  |  |
| .  -    |               | 79                         |          | -  | -  | -            | -            | ├          | <del> </del> | ┝            | -             |  |  |
| ŀ       | -             | 79                         | _        |  | -  | -            | -            | -          | -            | -            |               |  |  |
| -       |               | 80                         | _        | -  | ├  | -            | -            |            | ┝            | ┝            | H             |  |  |
|         | -             | 81                         | _        |  | _  | -            | H            | <u> </u>   | -            | <u> </u>     |               |  |  |
| :  -    |               | 82                         | $\vdash$ |  |  |              | <u> </u>     |            | <u> </u>     |              | -             |  |  |
| ⊢       |               | 83<br>84                   | <u> </u> | _  | -  | _            |              | <u> </u>   | <u> </u>     | <u> </u>     | -             |  |  |
| :  -    |               | 84                         | _        | -  | H  | <u> </u>     | -            |            | _            | -            |               |  |  |
| -       |               | 85                         | <u> </u> | $\vdash$   | <del> </del>                                     | -            | <u> </u>     | _          | _            | <del> </del> |               |  |  |
| ŀ       |               | 86<br>87                   | ├-       |  | -  | -            | <u> </u>     | $\vdash$   | ⊢            | <u> </u>     | L             |  |  |
| ┝       |               | 87                         | ⊢        |  | _  | H            | <u> </u>     | ├-         | _            | ⊢            | _             |  |  |
| H       |               | 88                         | ┡        | _  | -  | <u> </u>     | <b>!</b> —   |            | L            |              |               |  |  |
| ⊢       |               | 89                         | ├        | ⊢  | <u> </u>   | ┞            | ŀ            | ⊢          | -            | <b> </b>     | ⊢             |  |  |
| ┝       |               | 90                         |          | <u> </u>   | <u> </u>   | _            | ļ            | <u> </u>   | ╙            | ┡            | <u> </u>      |  |  |
| ┝       |               | 91                         | <u> </u> | <u> </u>   | <u> </u>   | L            | <u> </u>     | _          | ┞            | _            | <u> </u>      |  |  |
| ⊢       |               | 92                         | <u> </u> | <u> </u>   | ļ  |              | ╙            | ┡          | ļ            | ļ            |               |  |  |
| F       |               | 93                         | <u> </u> | Ь_   | <u> </u>   |              | ⊢            | ⊢          | <u> </u>     | ├_           | <u> </u>      |  |  |
| L       |               | 94                         | ⊢-       | ⊢  | <u> </u>   | <b> </b>     | ⊢            | <u> </u>   | <b> </b>     | <u> </u>     | <u> </u>      |  |  |
| L       |               | 95                         | ļ        | _  | _  | <b>L</b>     | ļ            | <b>!</b> — | ┞            | ⊢            | <u> </u>      |  |  |
| L       |               | 96                         | <u> </u> | <u> </u>   |  | <u> </u>     | <u> </u>     | L_         | L_           | L            | <u> </u>      |  |  |
| L       |               | 97                         | <u> </u> | <u> </u>   | <u> </u>   | L_           | <u> </u>     | ㄴ          | L            | ļ            | L             |  |  |
| L       |               | 98                         | <u> </u> | Щ  | _  | L            | <u> </u>     |            | L            | L            | L             |  |  |
| L       |               | 99                         | L        | <u> </u>   | L  | <u> </u>     | _            | _          |              |              | Щ             |  |  |
| L       |               | 100                        | Ĺ        |  |  |              | <u> </u>     |            |              |              |               |  |  |

| Cl           | aim                      | Date   |              |  |                                     |              |              |              |          |                 |
|--------------|--------------------------|--|--------------|--|-------------------------------------|--------------|--------------|--------------|----------|-----------------|
|              |                          | $\vdash$   |              |  | _                                   | Jak          | -            |              |          | $\dashv$        |
| Final        | Original                 |  |              |  |                                     |              |              |              |          |                 |
|              | 101                      |  |              |  |                                     |              |              |              |          |                 |
|              | 102                      |  |              |  |                                     |              |              |              |          |                 |
|              | 103                      |  |              |  |                                     |              |              |              |          |                 |
|              | 104                      |  |              |  |                                     |              |              |              |          |                 |
|              | 105                      |  |              |  |                                     |              |              |              |          |                 |
|              | 106                      |  |              | $ldsymbol{ld}}}}}}$ |                                     |              |              |              |          |                 |
|              | 107                      |  |              |  |                                     |              |              |              |          |                 |
|              | 108                      | Ш  |              |  |                                     |              |              |              |          |                 |
|              | 109                      |  |              |  |                                     |              |              |              |          | Ш               |
|              | 110<br>111               |  |              |  |                                     |              |              |              |          |                 |
|              | 111                      |  |              | _  |                                     |              |              |              | Ŀ        | Н               |
|              | 112                      |  |              |  |                                     |              | _            |              | <u> </u> | Н               |
| L            | 112<br>113<br>114<br>115 | <u> </u>   | <u> </u>     | -  |                                     |              | <u> </u>     |              |          | Н               |
|              | 114                      | $\vdash$   | -            | $\vdash$   | <b>—</b>                            |              |              | -            | H        |                 |
|              | 115                      | $\vdash$   | $\vdash$     | $\vdash$   | H                                   | H            |              |              | $\vdash$ | Н               |
|              | 110                      | $\vdash$   |              | H  |                                     |              |              | _            | -        | -               |
|              | 117<br>118               | -  | _            | -  | -                                   |              | _            |              | ⊢        | $\vdash$        |
|              | 119                      | $\vdash$   | <u> </u>     | -  |                                     |              | -            |              | ├—       |                 |
|              | 120                      | -  | $\vdash$     | -  | -                                   | -            | $\vdash$     |              | ├        | $\vdash$        |
|              | 120<br>121<br>122        |  | $\vdash$     | -  | $\vdash$                            |              | -            |              |          |                 |
|              | 122                      | $\vdash$   | -            |  |                                     |              |              |              | $\vdash$ |                 |
|              | 123                      | -  | _            | -  |                                     | H            |              | _            | $\vdash$ | Н               |
| -            | 123<br>124               |  |              | $\vdash$   | $\vdash$                            |              | $\vdash$     | _            |          | Н               |
|              | .125                     |  | $\vdash$     |  |                                     | -            | -            |              | -        | H               |
|              | 126                      |  | -            | -  | $\vdash$                            | _            | _            | _            |          | H               |
|              | .125<br>126<br>127       |  | $\vdash$     |  |                                     |              | $\vdash$     | _            |          | Н               |
|              | 128<br>129               |  | $\vdash$     | $\vdash$   |                                     |              | $\vdash$     |              |          | П               |
|              | 129                      |  |              |  |                                     |              |              |              |          | П               |
|              | 130                      |  |              |  |                                     |              |              |              |          | П               |
|              | 131<br>132               |  |              |  |                                     |              |              |              |          |                 |
|              | 132                      |  |              |  |                                     |              |              |              |          |                 |
|              | 133                      |  |              |  |                                     |              |              |              |          |                 |
|              | 134                      |  | L            | L  | <u> </u>                            |              | _            |              |          |                 |
|              | 135                      | L  | _            | _  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     |              | _            | _        | Ш               |
|              | 136                      |  | <u>L</u>     | <u> </u>   | _                                   |              | _            |              | <u> </u> | Ш               |
|              | 137                      | _  |              | <u> </u>   |                                     |              | Ŀ            | ļ            | L        | Щ               |
|              | 138                      | <u> </u>   |              | <b> </b> _   | -                                   |              | _            | <u> </u>     | ┡        | $\vdash$        |
| <b></b>      | 139                      | <u> </u>   | ├            | ├  | -                                   | <u> </u>     | <del> </del> | ⊢            |          | Н               |
|              | 140                      | <u> </u>   | <u> </u>     | -  | -                                   | _            | -            | ļ. —         | -        | Н               |
| <u> </u>     | 141                      | -  | <del> </del> | -  | $\vdash$                            | <del> </del> | -            | -            | ├-       | H               |
| <del>-</del> | 142                      | $\vdash$   | $\vdash$     | ├  | $\vdash$                            | $\vdash$     | ├            | ├—           | ├-       | $\vdash$        |
| <u> </u>     | 143                      | $\vdash$   | -            | $\vdash$   | <del> </del>                        | ⊢            | <del> </del> | ├-           | $\vdash$ |                 |
|              | 144                      | $\vdash$   |              | -  | ├—                                  | $\vdash$     | -            | <del> </del> | ├-       | $\vdash \vdash$ |
|              | 145                      | <del>                                     </del> |              |  | ├─                                  | ├─           | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash\vdash$  |
|              | 147                      | <del> </del>                                     | -            | $\vdash$   | $\vdash$                            | <del> </del> |              | $\vdash$     | $\vdash$ | $\vdash$        |
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|              | 149                      | $\vdash$   | ├            | -  | <del> </del>                        | ┢            |              | $\vdash$     | ├-       | H               |
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|              | 1 100                    | ــــــا  | Ц            | L  | Щ                                   |              |              |              | <u> </u> | لــــا          |